

IWG Data Analysis Action Items List

(URL: <http://lposun.larc.nasa.gov/ceresweb/Project.html>)

Task (*)	Listing Date	Observations, Puzzles, Anomalies Descriptions	Instrument	Data Date	ID'd By:	Problem Area	Resolution Priority	Proposed Solution(s)	Resolution Status
81.	4/23/01	Window asymmetric radiance response to lunar scans of 4/7/01	FM2	4/7/01	Priestley	O	L	TBD.	Investigating effects. (5/7/01)
80.	3/4/01	Total channel radiances < 10 W for record 1774.	FM2	6/21/00 (PreES8)	Green/Kizer	R/I	M	- Update flight software algorithm to verify bridge balance in range before returning to DAC 'maintenance' mode. - SS1 detect of spacelook average = 0 or 4095 and 'not' bridge balance reset.	Need to have 2nd spaceclamp checks for DAC resets/updates in SS1 code. Coding underway. (5/7/01).
79.	1/2/01	Large negative SW filtered radiance value (~ -1W)	FM2	12/12/00 6/21/00- (BDSS)	Priestley	R	M	TBD.	Investigating (1/2/01)
78.	1/2/01	Unexpected spacecraft position and velocity fill values in the 1st record for PRES8.	FM2	5/11/00	Green	O	L	Due to missing eph/att data files at start of production run. SS1 geolocation sets internal attitude flag telling toolkit to ignore attitude data when determining S/C subsat position. PreS8 processor checks S/C position and removes any records with CERES fill values. Awaiting DAAC delivery.	CLOSED (2/15/01)
77.	1/2/01	Subsystem aborted due to identical packet count value.	FM1	11/21/00	Cooper	O	M	Use a derived packet counter to keep track of level 0 scan packets processed. To be in June01 delivered code.	CLOSED (5/6/01)
76.	1/2/01	Unexpected 13092 packets in PRES8.	FM2	8/9/00?	Kizer	O	L	Internal oscillator clock is running faster than expected. No action expected. ERBE-Like S/W to accept extra packet.	CLOSED (2/15/01)
75.	5/26/00	Elevation position spikes during slews.	FM1/2	4/24/00 5/9/00	Spence	I	M	Code traps for bit flip like, single transition samples. cc016011.	CLOSED (1/2/01)
74.	4/11/00	Unanticipated QA radiance flag 'Unknown Errors' occurring.	All	Since March '00	Anselmo	G/R	M	Errors occurred due to missing att/eph data causing ada exceptions. Code fixed to handle missing data. cc016011	CLOSED (1/2/01)
73.	3/29/00	Large data dropouts in ES8, due to increases in SS1 spaceclamp flatness test failures. Radiance channels very noisy and undergoing excessive DAC resets. Radiance channels losing temperature control.	PFM	3/21/00 (begins 3/15/00)	Green	O	H	TBD. Monitor spaceclamp, DAC reset std. dev. statistics for trends. Monitor heatsink effects. ID possible noise cancellation algorithms.	CLOSED (1/8/01) PFM failed 6/14/00. Attempts to recover usable data on-going.

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72.	3/28/00	Unexpected default values in longitude sub-satellite occurring on preES8.	FM1	3/14/00	Green	O	M	PreES8 preprocessor code to discard records if it cannot perform an interpolation of sub-sat point@TOA in geocentric coordinates.	CLOSED (4/11/00)
71.	3/28/00	Radiances being flagged bad for 1st minute of BDS.	PFM	3/12/00	Kibler	O/G	M	DPREP production rules changed from mid-mission mode to beginning of day mode. PFM data to be reprocessed.	CLOSED (4/11/00)
70.	3/17/00	ES8 unfiltered LW spikes and an ~50 ⁰ geolocation longitudinal shift.	PFM	3/12/00	Green	G	H	Rerun with the V01 file that was originally received from FDD. The V02 ephemeris file was a Y2K test file that was never deleted. Rerun 3/11-3/13 for continuity.	CLOSED (3/28/00)
69.	3/15/00	If no eph/att files available, FOV moon checks are failing; converted radiances not output.	FM1/2	All	Kibler	G/R	M	Processing code to ignore moon FOV toolkit fail status. Set QA flag accordingly if no subsequent tests flags radiances bad. cc016011	CLOSED (1/2/01)
68.	3/6/00	Azimuth Rotation Stall Occurrences	PFM	2/26/00, 3/2/00	Brumfield	O	H	Loosen stall threshold conditions. Test with increasing A/B angles to characterize and compensate for gimbal performance. Due to subsequent PFM failure 6/14/00, no action taken.	CLOSED (1/2/01)
67.	2/4/00	Azimuth Stall @21:08 while stopped and brake applying during Safe Mode Sequence	FM1	2/3/00	Brumfield	I/O	H	Suspected either an encoder register reset timing problem during brake operations or a radiation induced single event upset. No additional occurrences noted.	CLOSED (3/1/00)
66.	1/21/00	Corrupted radiance counts due to DAA ground reference spikes.	FM1 (all)	12/30/99	Kibler	I/R	M	Use spike occurrences as a QA flag to flag radiances for the affected packet as bad. cc016011	CLOSED.
65.	1/19/00	Total Channel heatsink control sensor control ability. It typ. reads ~40 ⁰ C, but appears able to support temp control loop.	FM2	12/30/99	Kibler	O	L	Per TRW, control sensor is partially delaminated. Plotting against the monitor sensor shows control loop hysteresis operation. No control noted after covers opened; no action taken.	CLOSED (1/2/01)
64.	1/13/00	ICA-15V Internal, DAA+/-130V, DAA+/-120V Max-Min delta typ. 0.7V larger than anticipated.	FM1/2	12/20/99	Hess	O	L	These variations were seen in ground tests by I&T team. These can be expected, no action required.	CLOSED (1/15/00)
63.	11/12/99	FM1/2 packet timestamp generating Toolkit microsec field too big errors.	FM1/2	7/8/99	Hess	I/O	M	ID when microsec field = 1000, reset to 0 and bump up millisec of day field. Done at time parameter initializations within packet and level-0 codes. v3.0	CLOSED (11/9/99)

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62.	11/12/99	No FM1/2 boresight-to-spacecraft misalignment correction vector.	FM1/2	---	Hess	I/G	M	TBD. Will use coastline detection programs for initial assessments. Statistically unable to ID misalignment.	CLOSED (1/2/01)
61.	6/2/99	FM1/2 ETE2 BDS converted radiances show large data gaps.	FM1/2	5/24/99	Kibler	R	M	Set up separate files of edit limits, coefficients, offsets, etc. per instrument & channel spaceclamp std deviation limits. v3.0 (code delivered 11/9/9)	CLOSED (6/21/99)
60.	5/4/99	FM1/2 Azimuth Gimbal Bias, FM1=50cnts, FM2=25cnts.	FM1/2	3/29/99	Hess	I/O	M	Ops position cmd procs. need updating. SS1 code adjusts azimuth positions for FM1=27 cnts and FM2=18 cnts. v3.0	CLOSED (code - 11/9/99) CLOSED (ops - 1/2/01)
59.	5/4/99	FM1/2 ETE1 short-earth scan profiles are not the same.	FM1/2	3/29/99	Kibler	O	H	TRW to develop new scan table load for FM1 to match FM2 profile. Tested ETE2.	CLOSED (5/26/99)
58.	5/4/99	FM1/2 Stow Radiance Noise appear "switched" from ground tests.	FM1/2	3/28/99	Kibler	R/O	H	Add SS1 code to check APID vs Instr ID. Verify Gnd Data Plot Labeling.	CLOSED (code - 11/9/99)
57.	3/23/99	Adjust radiance count conversion for 12-Hr. instrument warm-up period.	PFM	3/??/99	Priestley	R	M	Either use heatsink control temp in lieu of monitor temp or use both. After further analysis, science team decided that since the % error was relatively small and impacted a limited data set, not to change production system code.	CLOSED (10/12/99)
56.	12/21/98	BDSS converted radiance values showing all fill values.	PFM	4/8/98	Kibler	R	H	Set conversion equation position offsets to zeros for mam scans. v2.7	CLOSED (code-12/23/98)
55.	11/24/98	Spacelook statistical means not = 0.	PFM	4/14/98	Anselmo	R	H	Apply position offsets to radiance count values before computing spaceclamp. v2.8	CLOSED (??)
54.	10/27/98	Add partial earth views to IESs upon requests.	PFM		Loeb	O	M	Set up run-time-parameter to route views to IES's. v2.6	CLOSED (11/12/98)
53.	10/22/98	PreES8 header times do not match actual start/stop times of a PreES8.	PFM	10/16/98	Green	O	L	Modify BDSConvert code to match to first record written to preES8. v2.6	CLOSED (10/28/98)
52.	10/20/98	Radiances exceeding high edit and rate edit limits.	PFM		Cooper	R	L	Correctly set QA Flag when bad spaceclamps and radiances are fill. v2.6	CLOSED (10/27/98)
51.	9/22/98	Error in leap year algorithm.	PFM	2/28/98	Cooper	G	L	Changed number of leap days to 366. v2.6	CLOSED (9/30/98)
50.	9/2/98	Azimuth Scan Plane Flag should be Crosstrack for azimuth = 0 ⁰	PFM	8/31/98	Kibler	I	M	Azimuth code changed to recognize cross-track positions of 0 ⁰ or 180 ⁰ +/-45 ⁰ . v2.51	CLOSED (9/4/98)
49.	8/19/98	Window channel radiances divide by 3.6 spectral channel width.	PFM		Priestley	R	M	Revised code to use the CERESLIB Constants modules. v2.51	CLOSED (8/24/98)

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48.	8/18/98	DAA +15V Yellow Limit tripped.	PFM	8/18/98	TRMM Ops	I	M	Per CERES tiger team: Leave PFM off. Only FAP operations for selected TRMM-SCARAB overlap periods until AM Launch+30days. Then operate full time until DAA+15V converter failure or TRMM Ends. SS1 edit limits not changed.	CLOSED (12/31/98)
47.	7/31/98	SW detector sensitivity to internal heat flow direction.	PFM	1/26/98	Priestley	R	TBD	Investigate other days with similar solar beta angles and scan mode, unable to correlate heat flow direction and increased noise in the SW detector signal.	CLOSED (8/5/98)
46.	7/31/98	Unexplained SW detector signal noise, would suddenly became noisier for unexplained reasons and then would settle out.	PFM	1/26/98	Priestley	R	TBD	Identify geolocation and scene ID. Look at other channel values. Noise captured in spaceclamp deviation stats. No code changes, minor in importance, remains unresolved.	CLOSED (6/7/99 - (per K.Priestley direction)
45.	7/31/98	High Total channel negative radiance values (~ -20 watt/m ² /sr).	PFM	4/14/98	Priestley	R	L	Moon views during spacelooks caused erroneous two scan interpolation. Used spaceclamp standard deviation statistics to eliminate non-typical spaceclamps. Narrowed radiance edit limits. V2.6	CLOSED (10/23/98)
44.	7/22/98	Why is IES product QA flagged bad?	PFM	1/18/98	Geier	R	L	Change IES QA flag to bad only if 99.9% of all 3 channels are bad. V2.5 code.	CLOSED (7/31/98)
43.	5/4/98	Along-track pre-S8 not being passed due to incorrectly set FAPS flag.	PFM	4/23/98	Robbins	I	M	Changed instrument logic that sets FAPS QA and change azimuth logic for sample level checks vs scan level checks. QA flag definitions also changed (e.g. crosstrack = 180 ⁰ +/- 45 ⁰) V2.5 Code.	CLOSED (7/24/98)
42.	4/20/98	Calculated UTCF value inconsistent with FOT reported UTCF.	PFM	4/14/98	Weaver, Cooper	L0	H	SDPF modified code to fix 0.11 sec MOC-SDPF discrepancy.	CLOSED (5/20/98)
41.	4/9/98	Incorrect Converted Solar Cal radiances, due to spaceclamps inadvertently using MAM data.	PFM	3/25/98 1/5/98	Wilson, Hess	R	H	Comment out add_sample calls from intcal-looks and mam-look routines within science_modules-samples.adb V2.5 Code.	CLOSED (5/26/98)
40.	4/8/98	1st packet of Solar Cal and Diagnostic APID's not being processed.	PFM	1/5/98, 1/12/98	Hess	O	L	Need to "reset" L0 read pointer to 1st packet after initializing for UTCF. Fixed in V2.5 code	CLOSED (7/24/98)
39.	4/3/98	Main Cover Position Sensor 2 showing increased min/max range	PFM	3/31/98	Hess	O	L	Monitor trend data. Sensor 1 is ok. No science data impact. Instrument repowering (4/25) has stabilized sensor.	CLOSED (5/20/98)

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38.	4/1/98	Unexplained missing data	PFM	3/22/98	Hess	O	L	White Sands to hold data longer whenever SDPF down. (Data inadvertently erased.)	CLOSED (4/3/98)
37.	3/30/98	Last packet radiances flagged bad as no available next scan spaceclamp	PFM	All	Cooper	R	L	Production rules and PGEs modified to use next day's level-0 file. v2.7 code	CLOSED (code-12/7/98)
36.	3/25/98	Lower the wavelengths of the SW channel spectral shape?	PFM	1/6/98 ES8	Priestley	O	TBD	Involves inversion algorithms. Magnitude/sensitivity insignificant.	CLOSED (3/30/98)
35.	3/25/98	2% SW Gain problem due to TACR measurements.	PFM	1/6/98	Priestley	R	H	Recalculated correct gain coefficients. Monitor stability, though no drift noted. Code updated with new coefficients.	CLOSED (3/30/98)
34.	3/25/98	More WN channel measurements being flagged with v20 code?	PFM	1/5/98 ES8	Chang	R	M	SS2 needs to modify code to read 5bit Pres8 flags instead of 3bit flags.	CLOSED (3/30/98)
33.	2/24/98	0.01 sec time stamp error; effects?	PFM FM1 FM2	All	Kibler Hess	I,O	L	ID occurrence and correct in controller.adb to determine offset adjustment to be made; keep both adjusted and unadjusted time stamps internally for comparisons. Error condition propagates for subsequent packets from initial 6.61 sec jump until correcting 6.59 second jump occurs. NO RESOLUTION at time of closure.	CLOSED (2/7/00)
32.	2/17/98	Redo position offsets for deep space data with latest 2nd time constants.	PFM		Priestley	R	H	Updated offset files with latest T37 provided offsets.	CLOSED (3/17/98)
31.	2/17/98	Should spaceclamp interpolation from sample 34 or should be from sample 0?	PFM		Priestley	R	M	Code completed to "shift" the center of spaceclamp avg from ~sample 34 to 0. (2/24)	CLOSED (3/17/98)
30.	2/17/98	SW Night time bias in "wrong direction between v16/v19 of code.	PFM	1/06/98 ES8	Green	R	M	Use correct position offset data. Code changed to process radiance conversion values using 64 bit precision (3/9)	CLOSED (3/9/98)
29.	2/17/98	Geodetic vs. Geocentric FOVs for BDS and IES?	PFM		Barkstrom	G	H	SS1 geolocation code changed to use geodetic for IES/BDS, use preS8 code to convert to geocentric for erbe-like. Use surface geometry angles for IES, BDS and use TOA geometry for ES-8 (2/18)	CLOSED (3/17/98)

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28.	2/12/98	1st data packet missing in ES-8 24hour file.	PFM	1/10/98 onward	Green	O	L	GSFC SDPF fixed their software so 1st packet won't be incorrectly listed in the QAC with a wrong length; to be fixed in ~6-8 weeks. No ss1 action required, allow missing packet to be rejected. (2/17)	CLOSED (5/20/98)
27.	2/12/98	Instrument scheduling inconsistencies due to outdated Sun angle predictions.	PFM	12/26/97	Weaver, Stover	O	H	Work with TRMM FOT to insure valid planning aid data are used for scheduling. Leave solar avoidance zone as is. Continue LARC command schedule verifications and notify FOT of errors.	CLOSED (3/2/98)
26.	2/9/98	Converted channel spacelook radiances increase @end of scan	PFM	01/05/98	Spence	R	M	Modified spaceclamp interpolation (item31) and correct 2nd time constant resolved differences. Verification that latest CC coefficients, 2nd TC, and offsets resolved the problem completed. Effect seen on all 3 channels (as a % change).	CLOSED (3/17/98)
25.	2/9/98	VZ nadir "jump" in ES-8 from normal 0.2 to 0.4 for 1 record. -Possible attitude data glitches?	PFM	01/06/98, XREC-3602	Green	G	M	GSFC folks indicate attitude data "spike" conditions are real. (2/17) TK does not return QA edit limit flags. Evaluate geolocation impacts and determine if flag or reject affected data. However, accept small attitude deviation data for now; no ss1 code changes for March delivery (2/18)	CLOSED (3/17/98)
24.	1/29/98	Deep Space spacelook avg glitch	PFM	01/07/98 13:45:13	Priestly	R	L	Possible moon/another spacecraft glint? Instrument parameters OK. Checked Toolkit for moon location (not in CERES FOV for these scans). No science impact.	CLOSED (3/17/98)
23.	1/26/98	Precision differences between predictive vs. actual UTCpole data. May delay DAAC processing till actual updates occur	PFM		Mitchum, R. Lee	G,O	H	Delta precision=(1/10000) ⁰ in 5 days, Continue daily processing (no delay) as planned	CLOSED (2/2/98)
22.	1/26/98	Should post DAC updated spacelook radiances also remove DAC jump? else "spikes" occur	PFM	EOS-QL0037 12/02/97	Hess	R	M	Not an issue. Ok to leave as is, per K. Priestley. Code changed to flag as bad so that these don't get into 2nd time constant.	CLOSED (2/17/98) CLOSED (2/24/98 Code)
21.	1/26/98	Merge QC reports (incorrect ESDT)	PFM		Cooper	O	L	Fixed subsystem metadata code.	CLOSED (1/30/98)

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20.	1/26/98	Significant CLD (Coast Line Detection) problem - Toolkit algorithms - instrument misalignments? - coastline/map code (Currey) - TOA/Suf projection errors?	PFM	01/03/98 RPck 11302- 11330	R. Lee Currey	G	H	Use geodetic map, (VIRS=geodet) Use correct CLD TOA-Surf lat/long projections. Use latest UTCpole file. Check CERES geodet to ECR xforms. Misalignment vector (verified by Bill) in March code delivery (2/23) CLD needed radiances using PSF peak-to-peak lags (~1.49 ⁰) vs ss1 using PSF centroid (1.56 ⁰). PSF model agrees with SS1 empirical data. SS1 outputs geodetic surface and TOA. CLD derived error < 1KM.	CLOSED (5/26/98)
19.	1/26/98	2nd Time constant code correct? (Op results don't match theory)	PFM	01/07/98, 01/08/98	R. Lee	R	H	Final coefficient and offset mods, code changes completed and verified. SS1 and Validation spreadsheet program agree (Liz, Joey)	CLOSED (3/17/98)
18.	1/26/98	Study Normal-earth and Short-earth scan middle spacelook/clamp impact	PFM	01/05/98	Kibler	R	L	No discernible statistical difference using the middle spacelooks vs end of scan spacelooks when using latest CC, 2nd TC, and offset coefficients for normal earth scans; study completed.	CLOSED (4/20/98)
17.	1/23/98	Solar ephemeris routine bombs for Sun elevation angles +/- 90 ⁰	PFM	01/11/98	Filer	O	L	Code to test/trap for 90 ⁰ . If so, skip data point	CLOSED (1/28/98)
16.	1/20/98	SW/Total saturation spike middle of daytime. azimuth turning torque? Limb reflection?	PFM	01/11/98 Hour 2	Hess, Kibler	R	M	Solar reflection due to SZ = VZ when RAZ=0, need QA flag to ID detector dynamic range limit (saturation) Code completed to trap, QC count, and flag saturated detector counts, set radiance=fill for all 3 channels for March code delivery (3/6).	CLOSED (3/17/98)
15.	1/16/98	DAC spaceclamp stability @0-10 cnts	PFM	12/27/97	Anselmo	R	M	Reject scans if spacelooks@scan end <10	CLOSED (1/20/98)
14.	1/13/98	Need for t37 signoff of coefficients	PFM		Escuadra	O	M	Forward delivery memo for t37 signature	CLOSED (1/20/98)
13.	1/13/98	Unknown scene ID problem in ES-8	PFM	01/11/98	Green	R	H	Related to using predictive ephemeris, Use actual ephemeris for pre-S8 product	CLOSED (1/20/98)

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12.	1/13/98	Unexplained SW night time shift in 2nd orbit in ES-8 Due to sun scanning? Due to wrong cnt conversion coefficients?	PFM	01/11/98	Green	R,O	H	Pre-ES8 was incorrectly processed using predictive ephemeris. (Predictive ephemeris assumes +x axis forward. But is really -x axis forward, sun 180 degrees off.) Check metadata ephemeris flag to BDS, if not actual, don't create pre-ES8.	CLOSED (1/20/98)
11.	1/7/98	Occasional voltage yellow limit failures, Due to DAC reset corruptions?	PFM	01/01/98 01/02/98	Hess	I,O	L	Yellow limits coincide with total channel resets (for all data in 1/98). Resets will produce fill radiances. No further impact or code action required.	CLOSED (2/11/98)
10.	1/6/98	Mam Scan, radiance leveled @IntCal even though slewed through it-OK?	PFM	01/04/98	Hess	O	L	Needed to know scan position to correctly interpret plot.	CLOSED (3/17/98)
9.	1/5/98	24Hr "sinusoid" cycle in heatsink control temp. sensor data, impact?	PFM	12/28/97, 12/29/97	Priestley	O	L	Possible spacecraft operation. Possible Earth radiant energy upwelling effects. NO RESOLUTION at time of closure.	CLOSED (2/7/00)
8.	1/5/98	Use heatsink control or monitor temp sensor in radiance equation?	PFM	12/28/97	Priestly	R	M	Use Monitor temp, per K.Priestley.	CLOSED (2/17/98)
7.	12/29/97	Frequent DAC Updates@sunrise/set causes too much data to be thrown away	PFM	12/27/97	Kibler	R,I	H	Subtract the spacelook difference before/after the DAC jump in the next scans spaceclamp averaging, continue to flag the DAC occurrence. Averaging options to be investigated	CLOSED (1/16/98)
6.	12/29/97	Why are all data flagged bad during DAC updates?	PFM	12/27/97	Kibler	R	H	DAC updates rejecting data, V18 to use modified spaceclamp algorithm (Loosen spaceclamp edit from 20 to 40 cnts)	CLOSED (1/16/98)
5.	12/29/97	Good FOV Flag, but Bad Viewing Zenith and Relative Azimuth. For Solar Zen=0, need to set RA=180	PFM	12/27/97	Chang	O	M	Geolocation code changes: (set VZ=0,not fill for nadir) When SZ and VZ close to 0, use taylor series to calculate VAZ and SAZ. PreES8 code changed(1/21): (set RA=0 when VZ=0 case & SZ=0)	CLOSED (3/2/98)
4.	12/29/97	Unexplained Data Gap in Total Channel 1292-1298 minutes	PFM	12/27/97	Kibler	R	M	Fixed in v18 by loosening spaceclamp edit limit from 20 to 40 cnts	CLOSED (1/16/98)
3.	12/29/97	Clock angle rate "spiking"	PFM	12/17/97 Hour 8	Geier	G	L	"Spiking" is due to 2 point rate difference computed from azimuth angle @ biax turnaround that needs ~27 samples to normalize. This is a normal occurrence.	CLOSED (1/12/98)

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2.	12/28/97	Unexpected solar avoidance safing, Sunglint@limb?	PFM	12/26/97, 01/11/98	Stover, Hess	O	H	Widen Sun elevation avoidance region, Flag as terminator, Use updated predictive solar planning aids.	CLOSED (1/20/98, region) CLOSED (2/10/98, aids)
1.	12/16/97	Should PSF lag be applied to elevation position for samples just starting to move?	PFM	12/27/97 Onward	Kibler, Hess	I	L	Code checks if previous samples were spacelooks, computes position and rate differences to verify motion has moved to allow correct PSF to be applied. V2.5	CLOSED (7/16/98)